



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/937,716	07/01/2002	Malcolm Maden	550-266	7012
7590 10/06/2005			EXAMINER	
	KOWALSKI, ESQ.	GUCKER, STEPHEN		
FROMMER LA 745 FIFTH AV	AWERENCE AND HA 'ENUE	UG, LLP	ART UNIT PAPER NUMBE	
NEW YORK,	NY 10151	1649		

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applio	ation No.	Applicant(s)					
		09/93	7,716	MADEN ET AL.					
Office Action Summary			ner	Art Unit					
			en Gucker	1649					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment: See 37 CFR 1.704(b).									
Status									
1)⊠ R	esponsive to communication(s) file	ed on <u>21 May 2</u> 004	<u>1</u> .						
•	•	2b) This action							
•	ince this application is in condition	for allowance exc	ept for formal ma	tters, prosecution as to the	e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4)⊠ C	laim(s) <u>1-6</u> is/are pending in the a	pplication.							
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)⊠ Claim(s) <u>1-6</u> is/are rejected.									
7) 🗌 C	laim(s) is/are objected to.								
8)□ C	laim(s) are subject to restri	ction and/or election	n requirement.						
Application	n Papers								
9)∐ Tr	ne specification is objected to by the	ne Examiner.							
10)∐ Tr	e drawing(s) filed on is/are	: a) accepted o	r b)□ objected to	by the Examiner.					
Α	pplicant may not request that any obje	ection to the drawing	s) be held in abeya	ance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority un	der 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
1. Certified copies of the priority documents have been received.									
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
	•								
A440.ch	.								
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)									
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10/1/01,5/21/04. 5) Notice of Informal Patent Application (PTO-152) 6) Other:									
Paper No(s)/Mail Date 10/1/01, 3/21/04.									

 \mathcal{C}

Application/Control Number: 09/937,716

Art Unit: 1649

DETAILED ACTION

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-4 provides for the use of RARβ2 and/or an agonist thereof, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 1-4 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

5. Claims 5-6 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method of using RA or CD2019, does not reasonably provide enablement for methods using RAR\$2 to treat neurological injury.

Application/Control Number: 09/937,716

Art Unit: 1649

The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. As taught by the instant specification, RAR\$2 is an intracellular polypeptide receptor that acts biologically by binding an agonist ligand such as retinoic acid (RA) and then translocating from the cytoplasm to the nucleus of a cell, where it binds DNA to affect transcription of genes. The specification does not provide adequate guidance or any examples by which the skilled artisan could exogenously administer RAR β 2 like a pharmaceutical such as aspirin or morphine because the RAR β 2 polypeptide has no means of crossing the external cell membrane (the RAR\$2) polypeptide is normally found inside the cell on the interior side of the cell membrane) to act upon the nucleus of a cell where it must be located in order to produce its biological effects. The cell membrane is not permeable to the RAR\$2 polypeptide, and therefore, undue experimentation would have to be performed in order to discover a way to get the RARB2 polypeptide to its subcellular nuclear location where it produces its desired biological and/or pharmaceutical effects. Because of the known difficulties in the art in getting intracellular proteins to perform as pharmaceuticals due to the cell membrane barrier, there is also no reasonable expectation of success without additional guidance or working examples from the specification, and the instant claims are not commensurate in scope with the teachings of the disclosure.

Page 3

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 09/937,716

Art Unit: 1649

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Page 4

- 7. Claims 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by WO96/23070 (IDS filed 10/1/01, "Lamph"). Lamph discloses that RA and other agonist retinoids activate RARβ polypeptides by binding to them (pages 1-4). Additionally, Lamph discloses that RA and other agonist retinoids can be used to treat diseases, including neurological diseases (pages 16-17 and page 36, lines 21-25).
- 8. No claim is allowed.
- 9. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technical Center 1600 general number which is (571) 272-1600.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gucker whose telephone number is (571) 272-0883. The examiner can normally be reached on Monday to Friday from 0930 to 1800. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres, can be reached at (571) 272-0867. The fax phone number for this Group is currently (571)-273-8300.

Stephen Gucker

October 3, 2005

SUPERVISORY PATENT EXAMINER